

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"20050114412"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 16:37
S2	2	"20040068505"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 16:46
S3	2	"20040006578"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 17:05
S4	2	"20050066219"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 17:15
S5	163	Hopmann.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 17:15
S6	8	S5 and replication\$1 and server\$1 and client\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 17:33
S7	552	master near file\$1 same server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 17:34
S8	28	master near file\$1 same replica\$6 and server\$1 and client\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 17:48
S9	7	(((((back\$3 near2 up) or backup) or mirror\$3 or replica\$5 or cop\$3) with change\$1 with (master near2 file\$1)) same (client-server or cliet near server or network or internet\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 13:55
S10	8684	((replicaT\$3 or (back\$3 near2 up)) with change\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 18:39
S11	8684	((replicat\$3 or (back\$3 near2 up)) with change\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 18:40

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S12	5379	(replicat\$3 or (back\$3 near2 up)) with change\$1 with (cop\$4 or replica\$4 or mirror\$3 or shadow\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 18:43
S13	84	(replicat\$3 or (back\$3 near2 up)) with change\$1 with (cop\$4 or replica\$4 or mirror\$3 or shadow\$3) with conflict\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 18:43
S14	45	S13 and "707"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/09 15:57
S15	2	(replicat\$3 or (back\$3 near2 up)) with change\$1 with (cop\$4 or replica\$4 or mirror\$3 or shadow\$3) with conflict\$3 with client\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/07 18:44
S19	2	"6578054".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/11 16:56
S20	54	(((((back\$3 near2 up) or backup) or mirror\$3 or replica\$5 or cop\$3) with change\$1 with ((master near2 (file\$1 or cop\$3)) or (primary near2 (file\$1 or cop\$3)))) same (client-server or cliet near server or network or internet\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 13:57
S21	371	(((((back\$3 near2 up) or backup) or mirror\$3 or replica\$5 or cop\$3) with change\$1 with ((master near2 (file\$1 or cop\$3)) or (primary near2 (file\$1 or cop\$3)))) and (client-server or client near server or network or internet\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 13:57
S22	56	(((((back\$3 near2 up) or backup) or mirror\$3 or replica\$5 or cop\$3) with change\$1 with ((master near2 (file\$1 or cop\$3)) or (primary near2 (file\$1 or cop\$3)))) same (client-server or client near server or network or internet\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 18:02
S23	40	S22 and interface\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 14:22
S24	5	S22 and expir\$5 adj2 time	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 15:52

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S25	19	S21 and (expir\$5 adj2 time) and interfac\$3 and (security or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 17:54
S27	19	S25 and ((master near2 (file\$1 or cop\$3)) or (primary near2 (file\$1 or cop\$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 17:57
S28	37	S21 and ((expir\$5 adj2 time) or timestamp) and interfac\$3 and (security or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 17:54
S29	109	replicat\$6 and ((master near2 (file\$1 or cop\$3)) or (primary near2 (file\$1 or cop\$3))) and ((expir\$6 near time) or timestamp) and (security or password) and server\$1 and client\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 18:15
S30	0	S29 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 18:05
S31	8	S29 and (replica\$5 or cop\$3) with change\$1 with ((master near2 (file\$1 or cop\$3)) or (primary near2 (file\$1 or cop\$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 18:04
S32	0	S31 and S22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 18:03
S33	0	S29 and S22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 18:05
S34	51	replicat\$6 same ((expir\$6 near time) or timestamp) and (security or password) and server\$1 and client\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/14 18:18
S35	51	replicat\$6 same ((expir\$6 near time) or timestamp) and (security or password) and server\$1 and client\$1 and replicat\$6 and ((expir\$6 near time) or timestamp)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/15 13:34
S36	2	"5588147".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/15 13:34



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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [A taxonomy of computer program security flaws](#)
 Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi
 September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.81 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

Keywords: error/defect classification, security flaw, taxonomy**2** [Separating key management from file system security](#)
 David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel
 December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.77 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use. We propose separating key management from file system security, letting the world share a single global file system no matter how individuals manage keys. We present SFS, a secure file system that avoids internal ...

3 [Integrating security in a large distributed system](#)
 M. Satyanarayanan
 August 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.90 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Andrew is a distributed computing environment that is a synthesis of the personal computing and timesharing paradigms. When mature, it is expected to encompass over 5,000 workstations spanning the Carnegie Mellon University campus. This paper examines the security issues that arise in such an environment and describes the mechanisms that have been developed to address them. These mechanisms include the logical and physical separation of servers and clients, support for secure communication ...

4 Cryptographic storage security: Secure capabilities for a petabyte-scale object-based distributed file system

Christopher Olson, Ethan L. Miller

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**

Publisher: ACM Press

Full text available:  pdf(199.37 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, the Network-Attached Secure Disk (NASD) model has become a more widely used technique for constructing large-scale storage systems. However, the security system proposed for NASD assumes that each client will contact the server to get a capability to access one object on a server. While this approach works well in smaller-scale systems in which each file is composed of a few objects, it fails for large-scale systems in which thousands of clients make accesses to a single file composed ...

Keywords: capabilities, object-based storage, scalability

5 Protecting applications with transient authentication

Mark D. Corner, Brian D. Noble

May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**

Publisher: ACM Press

Full text available:  pdf(294.40 KB)Additional Information: [full citation](#), [abstract](#), [references](#)


How does a machine know who is using it? Current systems authenticate their users infrequently, and assume the user's identity does not change. Such *persistent authentication* is inappropriate for mobile and ubiquitous systems, where associations between people and devices are fluid and unpredictable. We solve this problem with *Transient Authentication*, in which a small hardware token continuously authenticates the user's presence over a short-range, wireless link. We present the fo ...

6 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.82 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern,

migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

7 Distributed file systems: concepts and examples



Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(5.33 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

8 General storage protection techniques: Securing distributed storage: challenges, techniques, and systems



Vishal Kher, Yongdae Kim

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**

Publisher: ACM Press

Full text available: pdf(294.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security issues related to storage and present a comprehensive survey of the security services provided by the existing storage systems. We cover a broad range of the storage security literature, present a critical review of the existing solutions, compare ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

9 File servers for network-based distributed systems



Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

Publisher: ACM Press

Full text available: pdf(4.23 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

10 The internet worm program: an analysis



Eugene H. Spafford

January 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 1

Publisher: ACM Press

Full text available: pdf(2.45 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

On the evening of 2 November 1988, someone infected the Internet with a *worm* program. That program exploited flaws in utility programs in systems based on BSD-derived versions of UNIX. The flaws allowed the program to break into those machines and copy itself, thus *infecting* those systems. This program eventually spread to thousands of machines, and disrupted normal activities and Internet connectivity for many days. This report gives a detailed description of the components of the ...

11 Regaining single sign-on taming the beast

Divyangi Anchan, Mahmoud Pegah

September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services****Publisher:** ACM PressFull text available: pdf(217.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It has been our effort at Ringling school to provide our campus community with the capability to uniformly access resources across multiple platforms. Empowering the user with a single sign-on capability has multifold benefits. It greatly improves user experience and relieves the user from the burden of remembering multiple user-id and password pairs. On the administrative side, help desk costs are noticeably reduced and security improved, as users are not tempted to 'store' multiple passwords i ...

Keywords: LDAP, RPC, account synchronization, active directory (AD), active directory service interfaces (ADSI), password synchronization, single sign-on

12 Paranoid penguin: single sign-on and the corporate directory, Part I

Ti Leggett

December 2005 **Linux Journal**, Volume 2005 Issue 140**Publisher:** Specialized Systems Consultants, Inc.Full text available: html(22.58 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

2

13 On the influence of scale in a distributed system

M. Satyanarayanan

April 1988 **Proceedings of the 10th international conference on Software engineering****Publisher:** IEEE Computer Society PressFull text available: pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scale should be recognized as a primary factor influencing the architecture and implementation of distributed systems. This paper uses Andrew, a distributed environment at Carnegie Mellon University, to validate this proposition. The design of Andrew is dominated by considerations of performance, operability and security. Caching of information and placing trust in as few machines as possible emerge as two general principles that enhance scalability. The separation of concerns made possible ...

14 Copyrights and access-rights: How DRM-based content delivery systems disrupt expectations of "personal use"

Deirdre K. Mulligan, John Han, Aaron J. Burstein

October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03****Publisher:** ACM PressFull text available: pdf(416.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

We set out to examine whether current, DRM-based online offerings of music and movies accord with consumers' current expectations regarding the personal use of copyrighted works by studying the behavior of six music, and two film online distribution services. We find that, for the most part, the services examined do not accord with expectations of personal use. The DRM-based services studied restrict personal use in a manner inconsistent with the norms and expectations governing the purchase and ...

Keywords: access control, content distribution, copyright, digital rights management, fair

use, personal use, privacy

15 Session 1: On instant messaging worms, analysis and countermeasures



Mohammad Mannan, Paul C. van Oorschot

November 2005 **Proceedings of the 2005 ACM workshop on Rapid malware WORM '05**

Publisher: ACM Press

Full text available: [pdf\(186.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We provide a collection of minor results on the area of Instant Messaging (IM) worms, which has received relatively little attention in the formal literature. We review selected IM worms and summarize their main characteristics, motivating a brief overview of the network formed by IM contact lists, and a discussion of theoretical consequences of worms in such networks. Existing methods to restrict an IM worm epidemic are analyzed in terms of usability and effectiveness, leading to the suggestion ...

Keywords: instant messaging worms, scale-free networks

16 Migrating to role-based access control



Kami Brooks

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: Tivoli Management Environment, enterprise systems management, migration, role-based access control, security management

17 The GUIDE: (graphical user interface designed for education)



Mark Resmer

November 1993 **Proceedings of the 21st annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available: [pdf\(798.76 KB\)](#) Additional Information: [full citation](#), [index terms](#)

18 Risks to the public in computers and related systems



Peter G. Neumann

July 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: [pdf\(809.60 KB\)](#) Additional Information: [full citation](#), [index terms](#)

19 Does licensing require new access control techniques?



Ralf C. Hauser

November 1994 **Communications of the ACM**, Volume 37 Issue 11

Publisher: ACM Press

Full text available: [pdf\(5.53 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

20 An authentication and key distribution system for open network systems

 Shiuh-Pyng Shieh, Wen-Her Yang

April 1996 **ACM SIGOPS Operating Systems Review**, Volume 30 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(622.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citings](#), [index terms](#)

Keywords: distributed system security, network security

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